

Achim Müller

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394
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24,547
ext. citations

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L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 377 | Polyoxometalate Chemistry: An Old Field with New Dimensions in Several Disciplines. <i>Angewandte Chemie International Edition in English</i> , 1991 , 30, 34-48 | | 2956 |
| 376 | Polyoxometalates: Very Large Clusters-Nanoscale Magnets. <i>Chemical Reviews</i> , 1998 , 98, 239-272 | 68.1 | 1171 |
| 375 | Transition Metal Thiometalates: Properties and Significance in Complex and Bioinorganic Chemistry. <i>Angewandte Chemie International Edition in English</i> , 1981 , 20, 934-955 | | 498 |
| 374 | Chemie der Polyoxometallate: Aktuelle Variationen über ein altes Thema mit interdisziplinären Bezügen. <i>Angewandte Chemie</i> , 1991 , 103, 56-70 | 3.6 | 478 |
| 373 | Polyoxometalates: Fascinating structures, unique magnetic properties. <i>Coordination Chemistry Reviews</i> , 2009 , 253, 2315-2327 | 23.2 | 474 |
| 372 | Self-assembly in aqueous solution of wheel-shaped Mo ₁₅₄ oxide clusters into vesicles. <i>Nature</i> , 2003 , 426, 59-62 | 50.4 | 437 |
| 371 | Supramolecular Inorganic Chemistry: Small Guests in Small and Large Hosts. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 2328-2361 | | 430 |
| 370 | Inorganic chemistry goes protein size: a Mo ₃₆₈ nano-hedgehog initiating nanochemistry by symmetry breaking. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 1162-7 | 16.4 | 400 |
| 369 | Archimedean Synthesis and Magic Numbers: Bizing Giant Molybdenum-Oxide-Based Molecular Spheres of the Keplerate Type. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 3238-3241 | 16.4 | 341 |
| 368 | Soluble molybdenum blues-"des Pudels Kern". <i>Accounts of Chemical Research</i> , 2000 , 33, 2-10 | 24.3 | 340 |
| 367 | A variety of combinatorially linkable units as disposition: from a giant icosahedral Keplerate to multi-functional metal-oxide based network structures. <i>Chemical Communications</i> , 1999 , 1347-1358 | 5.8 | 312 |
| 366 | From linking of metal-oxide building blocks in a dynamic library to giant clusters with unique properties and towards adaptive chemistry. <i>Chemical Society Reviews</i> , 2012 , 41, 7431-63 | 58.5 | 288 |
| 365 | [Mo ₁₅₄ (NO) ₁₄ O ₄₂₀ (OH) ₂₈ (H ₂ O) ₇₀](25 H ⁺) ₅]·A Water-Soluble Big Wheel with More than 700 Atoms and a Relative Molecular Mass of About 24000. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 2122-2124 | | 288 |
| 364 | Organizational Forms of Matter: An Inorganic Super Fullerene and Keplerate Based on Molybdenum Oxide. <i>Angewandte Chemie - International Edition</i> , 1998 , 37, 3359-3363 | 16.4 | 278 |
| 363 | En route from the mystery of molybdenum blue via related manipulatable building blocks to aspects of materials science. <i>Coordination Chemistry Reviews</i> , 2003 , 245, 153-166 | 23.2 | 248 |
| 362 | Unveiling the transient template in the self-assembly of a molecular oxide nanowheel. <i>Science</i> , 2010 , 327, 72-4 | 33.3 | 227 |
| 361 | Toward Nanodevices: Synthesis and Characterization of the Nanoporous Surfactant-Encapsulated Keplerate (DODA) ₄₀ (NH ₄) ₂ [(H ₂ O) _n Mo ₁₃₂ O ₃₇₂ (CH ₃ COO) ₃₀ (H ₂ O) ₇₂]. <i>Journal of the American Chemical Society</i> , 2000 , 122, 1995-1998 | 16.4 | 221 |

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| 359 | Structure-related frustrated magnetism of nanosized polyoxometalates: aesthetics and properties in harmony. <i>Dalton Transactions</i> , 2010 , 21-36 | 4.3 | 210 |
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| 356 | A Novel Heterocluster with D ₃ -Symmetry Containing Twenty-One Core Atoms: [AsVO ₄₂ (H ₂ O)] ₆ ?. <i>Angewandte Chemie International Edition in English</i> , 1988 , 27, 1721-1721 | | 183 |
| 355 | Classical and quantum magnetism in giant Keplerate magnetic molecules. <i>ChemPhysChem</i> , 2001 , 2, 517-521 | 3.2 | 170 |
| 354 | Topologically Interesting Cages for Negative Ions with Extremely High Coordination Number: An Unusual Property of V-O Clusters. <i>Angewandte Chemie International Edition in English</i> , 1990 , 29, 926-927 | | 152 |
| 353 | Thioanionen der Übergangsmetalle: Eigenschaften und Bedeutung für Komplexchemie und Bioanorganische Chemie. <i>Angewandte Chemie</i> , 1981 , 93, 957-977 | 3.6 | 149 |
| 352 | Ultrathin Molybdenum Polyoxometalate-Polyelectrolyte Multilayer Films. <i>Langmuir</i> , 1998 , 14, 3462-3465 | 4.4 | 141 |
| 351 | Biologically inspired polyoxometalate-surfactant composite materials. Investigations on the structures of discrete, surfactant-encapsulated clusters, monolayers, and Langmuir-Blodgett films of (DODA) ₄₀ (NH ₄) ₂ [(H ₂ O) _n Mo ₁₃₂ O ₃₇₂ (CH ₃ CO ₂) ₃₀ (H ₂ O) ₇₂]. <i>Dalton Transactions RSC</i> , 2000 , 3989-3998 | | 139 |
| 350 | Deprotonations and charges of well-defined {Mo ₇₂ Fe ₃₀ } nanoacids simply stepwise tuned by pH allow control/variation of related self-assembly processes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15914-20 | 16.4 | 137 |
| 349 | Nucleation process in the cavity of a 48-tungstophosphate wheel resulting in a 16-metal-centre iron oxide nanocluster. <i>Chemistry - A European Journal</i> , 2008 , 14, 1186-95 | 4.8 | 135 |
| 348 | "Molecular symmetry breakers" generating metal-oxide-based nanoobject fragments as synthons for complex structures: [(Mo(128)Eu(4)O(388)H(10)(H(2)O)(81))(2)](20-), a giant-cluster dimer. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 2805-8 | 16.4 | 135 |
| 347 | The preparation of different types of polynuclear transition metal sulfur compounds by thiometallates, including cubane-like ones. Crystal structures of {Cu ₃ WS ₃ Cl}(PPh ₃) ₃ S, {Cu ₃ WS ₃ Cl}(PPh ₃) ₃ O, {Cu ₃ MoS ₃ Cl}(PPh ₃) ₃ S, {Cu ₃ MoS ₃ Cl}(PPh ₃) ₃ O, (PPh ₃) ₃ Cu ₂ WS ₄ IO.8CH ₂ Cl ₂ and (PPh ₃) ₃ Ag ₂ MoS ₄ IO.8CH ₂ Cl ₂ . <i>Inorganica Chimica Acta</i> , 1993 , 69, 5-16 | 2.7 | 130 |
| 346 | Vibrational spectra of oxo-, thio-, and selenometallates of transition elements in the solid state 1976 , 81-139 | | 130 |
| 345 | Materielle Organisationsformen: ein anorganisches Superfulleren und Keplerat auf Molybdänsauerstoffbasis. <i>Angewandte Chemie</i> , 1998 , 110, 3567-3571 | 3.6 | 126 |
| 344 | Extending the {(Mo)MO ₅ } ₁₂ M ₃₀ capsule keplerate sequence: a {Cr ₃₀ } cluster of S=3/2 metal centers with a {Na(H ₂ O) ₁₂ } encapsulate. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6106-10 | 16.4 | 124 |
| 343 | Trapping cations in specific positions in tuneable "artificial cell" channels: new nanochemistry perspectives. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 5039-44 | 16.4 | 124 |

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- 334 Formation of a Cluster Sheath around a Central Cluster by a Self-Organization Process—the Mixed Valence Polyoxovanadate [V₃₄O₈₂]₁₀?. *Angewandte Chemie International Edition in English*, **1991**, 30, 588-590 109
- 333 Spherical Mixed-Valence [V₁₅₀O₃₆]₅?, an Example from an Unusual Cluster Family. *Angewandte Chemie International Edition in English*, **1987**, 26, 1045-1046 106
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- 331 Topologisch und elektronisch bemerkenswerte reduzierte Cluster des Typs [V₁₈O₄₂(X)]_n [X = SO₄, VO₄] mit Td-Symmetrie und davon abgeleitete Cluster [V(18 β)As₂pO₄₂(X)]_m [X = SO₃, SO₄, H₂O; p = 3, 4]. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **1991**, 595, 251-274 1.3 102
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- 322 Rapid and Simple Isolation of the Crystalline Molybdenum-Blue Compounds with Discrete and Linked Nanosized Ring-Shaped Anions: Na₁₅[Mo{126}{VI}Mo{28}VO₄₆₂H₁₄(H₂O)₇₀]_{0.5} [Mo{124}{VI}Mo{28}VO₄₅₇H₁₄(H₂O)₆₈]_{0.5} [ca. 400 H₂O and Na₂₂[Mo{118}{VI}Mo{28}VO₄₄₂H₁₄(H₂O)₅₈] [ca. 250 H₂O]. *Zeitschrift Fur Anorganische Und Flexible pores of a metal oxide-based capsule permit entry of comparatively larger organic guests. Journal of the American Chemical Society*, **2009**, 131, 6380-2 1.3 91
- 321 16.4 89
- 320 Eine einfache Darstellung der binären Metall-Schwefel-Cluster [Mo₃S₁₃]₂ und [Mo₂S₁₂]₂ aus MoO₄²⁻ in praktisch quantitativer Ausbeute. *Chemische Berichte*, **1979**, 112, 778-780 87
- 319 Molybdenum Blue: A 200 Year Old Mystery Unveiled. *Angewandte Chemie International Edition in English*, **1996**, 35, 1206-1208 86
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- 310 A New Type of Supramolecular Compound: Molybdenum-Oxide-Based Composites Consisting of Magnetic Nanocapsules with Encapsulated Keggin-Ion Electron Reservoirs Cross-Linked to a Two-Dimensional Network We thank Prof. Dr. H. U. Gölbel (Bern), Dr. L. Cronin (Birmingham), and Dr. E. Diemann (Bielefeld) for helpful discussions. *Angewandte Chemie - International Edition*, **2000**, 39, 1192-1195 16.4 75
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- 304 Linking Icosahedral, Strong Molecular Magnets {MoFe} to Layers-A Solid-State Reaction at Room Temperature The authors thank M. Baumann, C. Kuhlmann, and S. Q. N. Shah for their assistance, and Prof. A. X. Trautwein and Dr. V. Schöemann (University of Lebeck) for the measurement of the $(57)Fe$ Mössbauer spectrum. S.S. (Department of Chemistry, IIT Kanpur, India) thanks the Alexander von Humboldt Foundation for financing his three-month stay in Bielefeld. *Angewandte Chemie - International Edition*, **2000**, 39, 1612-1614 16.4 69
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